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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/678,413	10/02/2000	Eduardo J. Baralt	T-5858	4378
7:	590 08/22/2002		,	
PHILLIPS CHEMICAL COMPANY L.P.			EXAMINER	
1301 McKINNEY ROOM 3446 HOUSTON, TX 77010			NGUYEN, TAM M	
			ART UNIT	PAPER NUMBER
			1764	
			DATE MAILED: 08/22/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		93					
	Application No.	licant(s)					
Office Action Summary	09/678,413	BARALT ET AL.					
Office Action Summary	Examin r	Art Unit					
The MAN INC DATE of this communication com	Tam M. Nguyen	1764					
Th MAILING DATE of this communication app Period for Reply	ears on the cover shiet with the C	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)⊠ Responsive to communication(s) filed on <u>13 A</u>	lugust 2002 .						
2a)☐ This action is FINAL . 2b)⊠ Thi	s action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under a Disposition of Claims	<i>Ex parte Quayle</i> , 1935 C.D. 11, 4	153 O.G. 213.					
4)⊠ Claim(s) <u>10-18</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>10-18</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)	,,						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) I.S. Patent and Trademark Office	5) Notice of Informal F	r (PTO-413) Paper No(s) Patent Application (PTO-152)					

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DETAILED ACTION

Continued Prosecution Application

The request filed on August 20, 2003 for a Request for Continued Examination (RCE) under 37 CFR 1.53(d) based on parent Application No. 09/678,414 is acceptable and a RCE has been established. An action on the RCE follows.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

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invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 10-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cupples et al. (4,045,507).

Cupples discloses an oligomerization process of an alphaolefinic feedstock (e.g., 1-decene) to produce polyalphaolefins by reacting the feedstock with a boro trifluoride catalyst in the presence of co-catalyst selected from alcohol and carboxylic acid (e.g., acetic acid). The catalyst is used in a catalytic amount from about 0.01 to about 3.0 weight percent of the 1-olefin. The process is operated a temperature from 20 to 70° C. (See abstract; col. 3, line 32 through col. 3, line 17)

Cupples does not specifically disclose that the catalyst system comprises an alcohol promoter and a carboxylic acid. However, Cupples discloses that the co-catalyst can be either an alcohol or a carboxylic acid. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the process of Cupples by using both alcohol and carboxylic acid as co-catalysts because both alcohol and carboxylic acid have an equivalent function in the oligomerization process of alphaolefins. Therefore, it would be expected that the results of using both alcohol and carboxylic acid would be the same or similar to the results of using either alcohol or carboxylic acid in the process of Cupples.

Cupples does not specifically disclose the amount of carboxylic acid in the range of from 0.08-2 or 0.16 to 0.35 mole % based on the alpha-olefin. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the process of Cupples by using the claimed amount of carboxylic acid because alcohol and

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carboxylic acid have an equivalent function. Therefore, one of skill in the art would employ any amount of the acid including the claimed amount in the process of Cupples because the total

amount of co-catalyst is important, not the amount of individual components.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tam M. Nguyen whose telephone number is (703) 305-7715.

The examiner can normally be reached on Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marian Knode can be reached on 703 308 4311. The fax phone numbers for the

organization where this application or proceeding is assigned are (703) 305-5408 for regular

communications and (703) 305-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0661.

Tam M. Nguyen

Examiner

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Tam Nguyen/TN August 21, 2002

Primary Examiner